- SEQUENCE LISTING GENERAL INFORMATION: GOLD, LARRY (i) APPLICANT: TUERK, CRAIG (ii) TITLE OF INVENTION: METHODS OF PRODUCING NUCLEIC ACID LIGANDS (iii) NUMBER OF SEQUENCES: 83 (iv) CORRESPONDENCE ADDRESS: ADDRESSEE: Swanson & Bratschun, L.L.C. (B) STREET: 8400 E. Prentice Avenue, Suite 200 CITY: Englewood (C) STATE: Colorado (D) (E) COUNTRY: USA (F) ZIP: 80111 COMPUTER READABLE FORM: (v) MEDIUM TYPE: Diskette, 3 1/5 inch, 1.44 MB COMPUTER: IBM compatible (B) (C) OPERATING SYSTEM: MS-DOS SOFTWARE: WordPerfect 8.0 (D) (vi) CURRENT APPLICATION DATA: APPLICATION NUMBER: 09/ (A) (B) FILING DATE: (vii) PRIOR APPLICATION DATA: (A) APPLICATION NUMBER: 08/748,697 FILING DATE: 13-NOVEMBER-1996 (B) (vii) PRIOR APPLICATION DATA: (A) APPLICATION NUMBER: 08/442,062 FILING DATE: 16-MAY-1995 (B) (vii) PRIOR APPLICATION DATA: (A) APPLICATION NUMBER: 07/964,624 FILING DATE: 21-OCTOBER-1992 (B) (vii) PRIOR APPLICATION DATA: (A) APPLICATION NUMBER: 07/714,131 FILING DATE: 10-JUNE-1991 (B) (vii) PRIOR APPLICATION DATA: (A) APPLICATION NUMBER: 07/536,428 (B) FILING DATE: 11-JUNE-1990 (viii) ATTORNEY/AGENT INFORMATION: (A) NAME: Barry J. Swanson REGISTRATION NUMBER: 33,215 (B) REFERENCE/DOCKET NUMBER: NEXO5/DC-CON (ix) TELECOMMUNICATION INFORMATION: TELEPHONE: (303) 793-3333 (A) (B) TELEFAX: (303) 793-3433 INFORMATION FOR SEQ ID NO:1: (2)
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 21 base pairs
    - (B) TYPE: nucleic acid(C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

UUCCGNNNNN NNNCGGGAAA A

	(C) STRANDEDNESS: single	
	(D) TOPOLOGY: linear	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:7:	
	AG AGATATAAAA TTCTTTCATA G	31
(2)	INFORMATION FOR SEQ ID NO:8:	
	SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 89 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: single	
	(D) TOPOLOGY: linear	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:8:	
GTTTCAAT	AG AGATATAAAA TTCTTTCATA GNNNNNNNN NNNNNNNNN	50
NNNNNNN	INN NAGTGCATTT TCCCGTTGCA CTTCGGACC	89
(2)	INFORMATION FOR SEQ ID NO:9:	
	SEQUENCE CHARACTERISTICS:	
• •	(A) LENGTH: 85 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: single	
	(D) TOPOLOGY: linear	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:9:	
CCCGGAT	CCT CTTTACCTCT GTGTGAGATA CAGAGTCCAC AAACGTGTTC	50
	ACC CGGTCGGAAG GCCATCAATA GTCCC	85
(2)	INFORMATION FOR SEQ ID NO:10:	
(i)	SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 49 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: single	
	(D) TOPOLOGY: linear	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:10:	
CCGAAGC	TTA ATACGACTCA CTATAGGGAC TATTGATGGC CTTCCGACC	49
(2)	INFORMATION FOR SEQ ID NO:11:	
	SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 25 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: single	
	(D) TOPOLOGY: linear	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:11:	
	CCT CTTTACCTCT GTGTG	25
(2)	INFORMATION FOR SEQ ID NO:12:	
(i)	SEQUENCE CHARACTERISTICS:	
, -,	(A) LENGTH: 23 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: single	
	(D) TOPOLOGY: linear	
(ix)	FEATURE:	

	(D)	OTHER	INFORM	ATION:		-		l are bas ositions	
(xi)	CECITE	NCE DE	CCDTDTT(	N: SEQ I	-				
UCCSANNN				J. 1. 020 1.				23	
OCCOMM	TATA TASA	JOGOPHIA	77. 1/11/11						
(2)	TNEOD	маттом	FOR SEC	ID NO:1	3 •				
(i)			ARACTER		•				
(1)	(A)			ase pairs					
			nuclei						
	(C)	STRAN	DEDNESS	: single					
	(D)		OGY:	_					
(iii)			YPE: RN						
	FEATU								
(230)			INFORM	ATION:	N at p	osition	29-36	can have	a
	,,					le lengt	h of 6	-8 bases	
(xi)	SEOUE	NCE DE	SCRIPTI	ON: SEQ I	D NO:13:				
					NNNNNNN	NNNNNNN	NN	50	
NNNNNNN								66	
(2)	INFOR	MATION	FOR SE	Q ID NO:1	.4:				
(i)	SEQUE	ENCE CH	ARACTER	ISTICS:					
	(A)	LENGT	H: 88 b	ase pairs	1				
	(B)	TYPE:	nuclei	c acid					
	(C)	STRAN	DEDNESS	: single					
	(D)			linear					
(xi)				ON: SEQ I					
					CGUGAGGC	UUUCGUGC	UG	50	
UUCCGAG	CUA UG	AAAGAA	UAUU UUAU	AUCUCU AU	TUGAAAC			88	
				o TD 170 1					
(2)				Q ID NO:1	.5:				
(i)			IARACTER		_				
	(A)			ase pairs	5				
	(B) (C)	TABE	nuclei						
				: single linear					
1 -23	(D)		LOGY:		ID NO:15:				
(xi)	SEQU.	ENCE DI	SOURTELL	.ON: SEQ .	JGUGAGGCG	CITAACCCT	ICIT	50	
				UCUCUA UT		001210000		87	
OCCGOGC	UAU GA	AMEDMA	JOO OAOA	OCOCOR OC	JOAANO			•	
(2)	TNEO	ואמיידר	N FOR S	EQ ID NO:	16:				
(2) (i)				RISTICS:	10.				
(1)	(A)			oase pair	s				
	(B)		: nucle:						
	(C)			S: single					
	(D)		LOGY:						
(xi)					ID NO:16:				
GGUCCGA	AGU G	CAACGG	GAA AAU	CACUGG U	GAGUGAGGC	CGAUGCUC	JUU	50	
				AUAUCUC U				89	
(2)	INFO	RMATIC	N FOR S	EQ ID NO:	17:				
(i)				RISTICS:					

(xi) EGUCCGAA JUCCGUGG	(A) LENGTH: 91 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear  SEQUENCE DESCRIPTION: SEQ ID NO:17:  GU GCAACGGGAA AAUGCACUGA CGCGCGAGGU CUUGGUACUG  CCU CUAUGAAAGA AUUUUAUAUC UCUAUUGAAA C	50 91
(2) (i)	INFORMATION FOR SEQ ID NO:18: SEQUENCE CHARACTERISTICS: (A) LENGTH: 89 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(xi)	(E) TD 110.10.	
GGUCCGA	AGU GCAACGGGAA AAUGCACUCU GGGUGAGACU UGAAGUCGUU	50
CCCCAGGT	JCU AUGAAAGAAU UUUAUAUCUC UAUUGAAAC	89
(2)	INFORMATION FOR SEQ ID NO:19:	
(i)	SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 89 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(		
(xi)	AGU GCAACGGGAA AAUGCACUCC CGGUGAAGCA UAAUGCUGUU	50
GGUCCGA	UCU AUGAAAGAAU UUUAUAUCUC UAUUGAAAC	89
CCUGGGG	OCO MOGMMONIO COCCIONACIONA	
(2)	INFORMATION FOR SEQ ID NO:20:	
(i)	SEQUENCE CHARACTERISTICS:	
\/	(A) LENGTH: 89 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: single	
	(D) TOPOLOGY: linear	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:20:	
GGUCCGA	AGU GCAACGGGAA AAUGCACUGG GAGUGAGGUU CCCCGUUCCU	50
CCCGCAC	CCU AUGAAAGAAU UUUAUAUCUC UAUUGAAAC	89
(2)	INFORMATION FOR SEQ ID NO:21:	
(i)	SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 89 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: single	
	(D) TOPOLOGY: linear	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:21:	50
GGUCCG	AAGU GCAACGGGAA AAUGCACUAG CGAUGUGAAG UGAUACUGGU UGCU AUGAAAGAAU UUUAUAUCUC UAUUGAAAC	89
CCAUCG	UGCU AUGAAAGAAU UUUMUMUCOC UMUUGAAAC	
(2)	INFORMATION FOR SEQ ID NO:22:	
(2) (i)	SEQUENCE CHARACTERISTICS:	
(1)	(A) LENGTH: 88 base pairs	
	\=-/ <del></del>	

	(B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:22:	50
GGUCCGAA	GU GCAACGGGAA AAUGCACUCA CAGUGAGCCU UCUGGUGGUC	88
CUGUGUGU	UA UGAAAGAAUU UUAUAUCUCU AUUGAAAC	00
(2)	INFORMATION FOR SEQ ID NO:23:	
(i)	SEQUENCE CHARACTERISTICS:	
\-/	(A) LENGTH: 89 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: single	
	(D) TOPOLOGY: linear	
(xi)		
GGUCCGA	AGU GCAACGGGAA AAUGCACUUG UUGUGAGUGG UUGAUUCCAU	50
GGUCCAAC	CCU AUGAAAGAAU UUUAUAUCUC UAUUGAAAC	89
, CC C C C C C C C C C C C C C C C C C		
(2)	INFORMATION FOR SEQ ID NO:24:	
(i)	SEQUENCE CHARACTERISTICS:	
• • •	(A) LENGTH: 89 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: single	
	(D) TOPOLOGY: linear	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:24:	
GGUCCGA	AGU GCAACGGGAA AAUGCACUGC CUGUGAGCUG UUUAGCGGUC	50
CAGGUCG	UCU AUGAAAGAAU UUUAUAUCUC UAUUGAAAC	89
(2)	INFORMATION FOR SEQ ID NO:25:	
(i)	SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 88 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: single	
,	(D) TOPOLOGY: linear SEQUENCE DESCRIPTION: SEQ ID NO:25:	
(xi)	AGU GCAACGGGAA AAUGCACUCA AGGCGAAGAC UUAGUCUGCU	50
GGUCCGA	AGU GCAACGGGAA AAUGCACUCA AGGCGAAGAC OOAGGCGGGGGGGGGGGGGGGGGGGG	88
CCCUGUG	CUA UGAAAGAAUU UUADAUCUCU AUUUIIII	
(2)	INFORMATION FOR SEQ ID NO:26:	
(i)	SEQUENCE CHARACTERISTICS:	
(1)	(A) LENGTH: 88 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: single	
	(D) TOPOLOGY: linear	
(xi)	TO TO TO SEC.	
GGTTCCG	AAGU GCAACGGGAA AAUGCACUUG CGUCGAAGUU AAUUCUGGUC	50
GAUGCC	ACUA UGAAAGAAUU UUAUAUCUCU AUUGAAAC	88
(2)	INFORMATION FOR SEQ ID NO:27:	
(i)	SEQUENCE CHARACTERISTICS:	
•-•	(A) LENGTH: 90 base pairs	
	(B) TYPE: nucleic acid	

	(C) STRANDEDNESS: single	
	(D) TOPOLOGY: linear	
(xi)		
	GU GCAACGGGAA AAUGCACUUU CAAUGAGGUA UGUAAUGAUG	50
GUCGUGCG	CC UAUGAAAGAA UUUUAUAUCU CUAUUGAAAC	90
(2)	INFORMATION FOR SEQ ID NO:28:	
(i)	SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 89 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: single	
	(D) TOPOLOGY: linear	
	SEQUENCE DESCRIPTION: SEQ ID NO:28:	50
	AGU GCAACGGGAA AAUGCACUGC GGGAGAGUCU UUUGACGUUG	89
CUCCUGC	GCU AUGAAAGAAU UUUAUAUCUC UAUUGAAAC	89
(2)	INFORMATION FOR SEQ ID NO:29:	
(2) (i)	SEQUENCE CHARACTERISTICS:	
(1)	(A) LENGTH: 88 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: single	
	(D) TOPOLOGY: linear	
(xi)	,	
	AGU GCAACGGGAA AAUGCACUCA UGGGAGCCCA UCGAUUCUGG	50
	CUA UGAAAGAAUU UUAUAUCUCU AUUGAAAC	88
GOGOOGC	COA OGAAAGAOO OOAGACCCC ACCELLIC	
(2)	INFORMATION FOR SEQ ID NO:30:	
(i)		
	(A) LENGTH: 88 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: single	
	(D) TOPOLOGY: linear	
(xi)		
GGUCCGA	AGU GCAACGGGAA AAUGCACUUG CACAGAGCCA AAUUUGGUGU	50
	CUA UGAAAGAAUU UUAUAUCUCU AUUGAAAC	88
(2)	INFORMATION FOR SEQ ID NO:31:	
(i)	SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 89 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: single	
	(D) TOPOLOGY: linear	
(xi)		
	AGU GCAACGGGAA AAUGCACUGG CCAGAGCUUA AAUUCAAGUG	50
UUGCUGG	CCU AUGAAAGAAU UUUAUAUCUC UAUUGAAAC	89
/ <b>^</b> \	INFORMATION FOR SEQ ID NO:32:	
(2)		
(i)		
	• •	
	· ·	
	(C) STRANDEDNESS: single	

(i)

SEQUENCE CHARACTERISTICS:

(2)	INFORMATION FOR SEQ ID NO:37:	
(i)	SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 89 base pairs	
	(B) TYPE: nucleic acid	
	(C) - STRANDEDNESS: single	
	(D) TOPOLOGY: linear	
(ii)	MOLECULAR TYPE: RNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID	NO:37:
GGUCCGA	AGU GCAACGGGAA AAUGCACUNN NNNN	NNNNNN NNNNNNNNNN 50
NNNNNNN	NCU AUGAAAGAAU UUUAUAUCUC UAUU	GAAAC 89
(2)		
(i)		
	(A) LENGTH: 51 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: single	
	(D) TOPOLOGY: linear	
	MOLECULAR TYPE: RNA	
(ix)	FEATURE:	
	(D) OTHER INFORMATION:	-
		paired with N's at positions 48-51
(ix)	FEATURE:	
	(D) OTHER INFORMATION:	N's at postiions 38-39 are based
		paired with N's at positions 40-41
(ix)	FEATURE:	
	(D) OTHER INFORMATION:	N at position 44 is either G or U
	SEQUENCE DESCRIPTION: SEQ ID	
	AGU GCAACGGGAA AAUGCACUNN NNGU	
N		51
(2)	INFORMATION FOR SEQ ID NO:39:	
(i)	SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 54 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: single	
		·
(111)	(D) TOPOLOGY: linear	
	MOLECULAR TYPE: RNA	
(IX)	FEATURE:	N's at postiions 29-34 are based
	(D) OTHER INFORMATION:	paired with N's at positions 48-53
(4.4)	777 W 777 F	batted with W. a at boatcious 40-33
(1X)	FEATURE: (D) OTHER INFORMATION:	N's at postiions 37-39 are based
	(D) OTHER INFORMATION:	paired with N's at positions 40-42
/ i ac\	FEATURE:	batted with W 2 of boatcromp 40 45
(IX)	(D) OTHER INFORMATION:	N at position 45 is either G or U
(xi)		-
	AAGU GCAACGGGAA AAUGCACUNN NNN	
NNNN	MAD GUNEGGEN ANGGENCOM MMM	54
TATATATA		~ ~
(2)	INFORMATION FOR SEQ ID NO:40	•
\ <del></del> /		-

	<ul> <li>(A) LENGTH: 37 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
	SEQUENCE DESCRIPTION: SEQ ID NO:40: UUG AGAAACACGU UUGUGGACUC UGUAUCU	37
(2)	INFORMATION FOR SEQ ID NO:41:	
(i)	SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 66 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: single	
	(D) TOPOLOGY: linear	
	SEQUENCE DESCRIPTION: SEQ ID NO:41:	
	UUG AGAAACACGU UUGUGGACUC UGUAUCUAUG AAAGAAUUUU	50
AUAUCUC	UAU UGAAAC	66
(2)	INFORMATION FOR SEQ ID NO:42:	
	SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 23 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: single	
	(D) TOPOLOGY: linear	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:42:	
GTTTCAA	TAG AGATATAAAA TTC	23
(2)	INFORMATION FOR SEQ ID NO:43:	
	SEQUENCE CHARACTERISTICS:	
(1)	(A) LENGTH: 86 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: single	
	(D) TOPOLOGY: linear	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:43:	
GGGACUA	AUUG AUGGCCUUCC GACCNNNNNN NNNNNNNNNN NNNNNNNNNN	50
	INNN NCACACAGAG GUAAAGAGGA UCCGGG	86
	•	
(2)	INFORMATION FOR SEQ ID NO:44:	
(i)	SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 86 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: single	
,	(D) TOPOLOGY: linear	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:44: AUUG AUGGCCUUCC GACCGGGUGC AUUGAGAAAC ACGUUUGUGG	50
	JAUC UCACACAGAG GUAAAGAGA UCCGGG	86
ACUCUG	NAUC UCACACAGAG GUARAGAGAA UCCGGG	<b>~</b>
(2)	INFORMATION FOR SEQ ID NO:45:	
(i)	SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 84 base pairs	
	(B) TYPE: nucleic acid	
	(a) continues, cinale	

(xi)	(D) TOPOLOGY: linear SEQUENCE DESCRIPTION: SEQ ID NO:45:	
	UG AUGGCCUUCC GACCUGGUGC GUUGAGAAAC AGGUUUUUGG	50
	CC ACACAGAGGU AAAGAGGAUC CGGG	84
	₹.	
(2)	INFORMATION FOR SEQ ID NO:46:	
	SEQUENCE CHARACTERISTICS:	
*	(A) LENGTH: 86 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: single	
	(D) TOPOLOGY: linear	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:46:	
GGGACUAU	TUG AUGGCCUUCC GACCGUAUGC AUUGAGAGAC ACACUUGUGG	50
	NUC CCACACAGAG GUAAAGAGGA UCCGGG	86
(2)	INFORMATION FOR SEQ ID NO:47:	
	SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 86 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: single	
	(D) TOPOLOGY: linear	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:47:	
	JUG AUGGCCUUCC GACCAGAUGG AUUGAGAAAC ACUAUUAUGG	50
ACUCUCCI	AUC GCACACAGAG GUAAAGAGGA UCCGGG	86
(2)		
(i)	SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 86 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: single	
	(D) TOPOLOGY: linear	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:48:	50
	UUG AUGGCCUUCC GACCAGCUUC GUCGAGAUAC ACGUUGAUGG	86
ACUCCGA	AGC ACACAGAG GUAAAGAGGA UCCGGG	00
	TOTAL TOTAL TOP OFFI TO NO. 40.	
(2)	INFORMATION FOR SEQ ID NO:49:	
(1)	SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 86 base pairs (B) TYPE: nucleic acid	
	· - /	
/ \		
(xi)	SEQUENCE DESCRIPTION: DEQ 12 NOTIFICAL SEQUENCE DESCRIPTION: DEQ 12 NOTIFICAL DESCRIPTION: DEC 12 NOTIFICAL DECENTRADOR DESCRIPTION: DEC 12 NOTIFICAL DECENTRADOR DECENT	50
A CTICCOT	JACC UCACACAGAG GUAAAGAGGA UCCGGG	86
ACUCCGU	NCC DEMENDING CONTROLLED COCC	
(2)	INFORMATION FOR SEQ ID NO:50:	
(i)	SEQUENCE CHARACTERISTICS:	
(1)	(A) LENGTH: 86 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: single	
	(D) TOPOLOGY: linear	

(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:50:	
	UG AUGGCCUUCC GACCUCGAUC GUUGAGAUAC ACGCUAGUGG	50
	AC UCACACAGAG GUAAAGAGGA UCCGGG	86
(2)	INFORMATION FOR SEQ ID NO:51:	
	SEQUENCE CHARACTERISTICS:	
(-)	(A) LENGTH: 86 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: single	
	(D) TOPOLOGY: linear	
(xi)		
	TUG AUGGCCUUCC GACCUACUGC AUCGAGAUAC ACGUUUGUGG	50
	ACA UCACAGAG GUAAAGAGGA UCCGGG	86
ACUCUGUA	CA DEACHERBAG GUARAGAGA DECEGG	
(2)	INFORMATION FOR SEQ ID NO:52:	
(2)		
(i)		
	(A) LENGTH: 86 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: single	
	· ·	
(	(2)	
(xi)	JUG AUGGCCUUCC GACCUGAUAC GUUGAGAAAC ACAAUGCUGG	50
		86
ACUCCGCA	AUC CCACACAGAG GUAAAGAGGA UCCGGG	00
(0)	THEORY TOR COLUMN TO NO. 12.	
(2)		
(i)		
	(A) LENGTH: 86 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(		
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:33: UUG AUGGCCUUCC GACCGCCUGC AUUGAGAAAC AGGAUUCUGG	50
	CAC UCACACAGAG GUAAAGAGGA UCCGGG	86
ACUCUGC	CAC UCACACAGAG GUAAAGAGGA UCCGGG	00
(-)	THE PART OF SEC. ID NO. 54.	
(2)	INFORMATION FOR SEQ ID NO:54:	
(i)		
	(A) LENGTH: 86 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: single	
	• • • • • • • • • • • • • • • • • • • •	
	(5)	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:54:	50
	UUG AUGGCCUUCC GACCCGCUAU GUUGAGAAAC ACUUUGCUGG	86
ACUCCGU	AGC UCACACAGAG GUAAAGAGGA UCCGGG	80
(6)	TAMODANITON FOR CEO ID NO.55.	
(2)	INFORMATION FOR SEQ ID NO:55:	
(i)	SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 85 base pairs (B) TYPE: nucleic acid	
	• • •	
	(C) STRANDEDNESS: single	
, ,,	(D) TOPOLOGY: linear	

(2) INFORMATION FOR SEQ ID NO:56: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 36 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO:56:  GGGACUAUUG AUGGCCUUCC GACCCGGUAC GUCGAGAUAC ACGAAGAUGG ACUCCGUAUC GCACACAGAG GUAAAGAGGA UCCGGG (2) INFORMATION FOR SEQ ID NO:57: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 86 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO:57:  GGGACUAUUG AUGGCCUUCC GACCACACUCC AUCGAGAACA ACGAUAGUGG (D) TOPOLOGY: linear (Xi) SEQUENCE CHARACTERISTICS: (A) LENGTH: 86 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (Xi) SEQUENCE CHARACTERISTICS: (A) LENGTH: 86 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO:58: GGGACUAUUG AUGGCCUUCC GACCGGAGAC GUCGAGAACA ACGAUUGUGG (C) STRANDEDNESS: single (D) TOPOLOGY: linear (Xi) SEQUENCE CHARACTERISTICS: (A) LENGTH: 86 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (Xi) SEQUENCE CHARACTERISTICS: (A) LENGTH: 86 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO:59: (GAGCUAUUG AUGGCCUUCC GACCAGCUAC AUCGAGAAAC AAGAUUUUGG ACCUCCUGUAGC GACCACAGAG GUAAAGAGGA UCCGGG (2) INFORMATION FOR SEQ ID NO:59: (3) SEQUENCE DESCRIPTION: SEQ ID NO:59: (4) SEQUENCE DESCRIPTION: SEQ ID NO:59: (5) TOPOLOGY: linear (Xi) SEQUENCE CHARACTERISTICS: (A) LENGTH: 83 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (XI) SEQUENCE CHARACTERISTICS: (A) LENGTH: 83 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (XI) SEQUENCE DESCRIPTION: SEQ ID NO:60:		UG AUGGCCUUCC GACCUACUGC AUCGAGAAAC ACGUAAGUGA	50
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 86 base pairs (B) TYPE: nucleic acid (C) STRANDENNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:56: GGGACUAUUG AUGGCCUUCC GACCCGGUAC GUCGAGAUTAC ACGAAGAUGG 86 ACUCCGUAUC GCACACAGAG GUAAAGAGGA UCCGGG 86  (2) INFORMATION FOR SEQ ID NO:57: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 86 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:57: GGGACUAUUG AUGGCCUUCC GACCAACUCC AUCGAGAAAC ACGAUAGUGG 86  (2) INFORMATION FOR SEQ ID NO:58: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 86 base pairs (b) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE CHARACTERISTICS: (A) LENGTH: 86 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:58: GGGACUAUUG AUGGCCUUCC GACCGGAGAC GUCGAGAAAC ACGAUUUGUGG 50 ACUCCGUCCU CCACACAGAG GUAAAGAGGA UCCGGG 86  (2) INFORMATION FOR SEQ ID NO:59: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 86 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE CHARACTERISTICS: (A) LENGTH: 86 base pairs (B) TYPE: nucleic acid (C) STRANDENNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE CHARACTERISTICS: (A) LENGTH: 86 base pairs (B) TYPE: nucleic acid (C) STRANDENNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE CHARACTERISTICS: (A) LENGTH: 86 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE CHARACTERISTICS: (A) LENGTH: 88 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (XI) SEQUENCE CHARACTERISTICS: (A) LENGTH: 88 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (XI) SEQUENCE CHARACTERISTICS: (A) LENGTH: 88 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (XI) SEQUENCE CHARACTERISTICS: (A) LENGTH : 88 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (XI) SEQUENCE CHARACTERISTICS:	CUCUGCAU	CC CACACAGAGG UAAAGAGGAU CCGGG	85
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 86 base pairs (B) TYPE: nucleic acid (C) STRANDENNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:56: GGGACUAUUG AUGGCCUUCC GACCCGGUAC GUCGAGAUTAC ACGAAGAUGG 86 ACUCCGUAUC GCACACAGAG GUAAAGAGGA UCCGGG 86  (2) INFORMATION FOR SEQ ID NO:57: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 86 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:57: GGGACUAUUG AUGGCCUUCC GACCAACUCC AUCGAGAAAC ACGAUAGUGG 86  (2) INFORMATION FOR SEQ ID NO:58: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 86 base pairs (b) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE CHARACTERISTICS: (A) LENGTH: 86 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:58: GGGACUAUUG AUGGCCUUCC GACCGGAGAC GUCGAGAAAC ACGAUUUGUGG 50 ACUCCGUCCU CCACACAGAG GUAAAGAGGA UCCGGG 86  (2) INFORMATION FOR SEQ ID NO:59: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 86 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE CHARACTERISTICS: (A) LENGTH: 86 base pairs (B) TYPE: nucleic acid (C) STRANDENNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE CHARACTERISTICS: (A) LENGTH: 86 base pairs (B) TYPE: nucleic acid (C) STRANDENNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE CHARACTERISTICS: (A) LENGTH: 86 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE CHARACTERISTICS: (A) LENGTH: 88 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (XI) SEQUENCE CHARACTERISTICS: (A) LENGTH: 88 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (XI) SEQUENCE CHARACTERISTICS: (A) LENGTH: 88 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (XI) SEQUENCE CHARACTERISTICS: (A) LENGTH : 88 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (XI) SEQUENCE CHARACTERISTICS:			
(A) LENGTH: 86 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO:56:  GGGACUAUUG AUGGCCUUCC GACCCGGUAC GUCAGABACA ACGAAGAUGG ACUCCGUAUC GCACACAGAG GUAAAGAGGA UCCGGG  (2) INFORMATION FOR SEQ ID NO:57: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 86 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO:57:  GGGACUAUUG AUGGCCUUCC GACCAACUCC AUCGAGAAAC ACGAUAGUGG ACUCUGGAGC UCACACAGAG GUAAAGAGGA UCCGGG  (2) INFORMATION FOR SEQ ID NO:58: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 86 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO:58: GGGACUAUUG AUGGCCUUCC GACCAGAGAC GUCCAGAAAAC ACGUUUGUGG ACUCCGUCUC UCACACAGAG GUAAAGAGGA UCCGGG  (2) INFORMATION FOR SEQ ID NO:59: (GGGACUAUUG AUGGCCUUCC GACCAGAGAC GUCGAGAAAC ACGUUUGUGG ACUCCGUCUC UCACACAGAG GUAAAGAGGA UCCGGG  (2) INFORMATION FOR SEQ ID NO:59: (A) LENGTH: 86 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (XI) SEQUENCE CHARACTERISTICS: (A) LENGTH: 86 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (XI) SEQUENCE CHARACTERISTICS: (A) LENGTH: 86 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (XI) SEQUENCE DESCRIPTION: SEQ ID NO:59: GGGACUAUUG AUGCCUUCC GACCAGCUAC AUCGAGAAAC AAGAUUUUGG ACUCUGUAGC GCACACAGAG GUAAAGAGGA UCCGGG  (2) INFORMATION FOR SEQ ID NO:60: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 83 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (XI) SEQUENCE CHARACTERISTICS: (A) LENGTH: 83 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (XI) SEQUENCE DESCRIPTION: SEQ ID NO:60:			
(B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:56: GGGACUAUUG AUGGCCUUCC GACCCGGUAC GUCGAGAUAC ACGAAGAUGG 86 AUCCGGUAC GCACACAGAG GUAAAGAGGA UCCGGG 86  (2) INFORMATION FOR SEQ ID NO:57: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 86 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:57: GGGACUAUUG AUGGCCUUCC GACCACAUCC AUCGAGAAAC ACGAUAGUGG 86  (2) INFORMATION FOR SEQ ID NO:58: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 86 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:58: GGGACUAUUG AUGGCCUUCC GACCAGGAGAAC ACGAUAGUGG 50 ACUCCGUCCU UCACACAGAG GUAAAGAGGA UCCGGG 86  (2) INFORMATION FOR SEQ ID NO:59: (i) SEQUENCE DESCRIPTION: SEQ ID NO:59: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 86 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (Xi) SEQUENCE CHARACTERISTICS: (A) LENGTH: 86 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO:59: GGGACUAUUG AUGGCCUUCC GACCAGCUAC AUCGAGAAAC AAGAUUUUGG 50 ACUCCUGUAGG GCACCAGCUAC AUCGAGAAAC AAGAUUUUGG 50 ACUCCUGUAGG GCACACAGAG GUAAAGAGGA UCCGGG 86  (2) INFORMATION FOR SEQ ID NO:60: (XI) SEQUENCE CHARACTERISTICS: (A) LENGTH: 83 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (XI) SEQUENCE CHARACTERISTICS: (A) LENGTH: 83 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (XI) SEQUENCE CHARACTERISTICS: (A) LENGTH: 83 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (XI) SEQUENCE CHARACTERISTICS: SEQ ID NO:60:	(i)		
(C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:56:  GGGACUAUUG AUGGCCUUCC GACCCGGUAC GUCGAGAUAC ACGAAGAUGG ACUCCGUAUC GCACACAGAG GUAAAGAGGA UCCGGG  (2) INFORMATION FOR SEQ ID NO:57: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 86 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:57:  GGGACUAUUG AUGGCCUUCC GACCAACUCC AUCGAGAAAC ACGAUAGUGG ACUCUGGAGC UCACACAGAG GUAAAGAGGA UCCGGG  (2) INFORMATION FOR SEQ ID NO:58: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 86 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:58: GGGACUAUUG AUGGCCUUCC GACCGAGAC GUCGAGAAAC ACGUUUGUGG ACUCCGGUCU UCACACAGAG GUAAAGAGGA UCCGGG  (2) INFORMATION FOR SEQ ID NO:59: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 86 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (Xi) SEQUENCE CHARACTERISTICS: (A) LENGTH: 86 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (Xi) SEQUENCE CHARACTERISTICS: (A) LENGTH: 83 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (XI) SEQUENCE CHARACTERISTICS: (A) LENGTH: 83 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (XI) SEQUENCE CHARACTERISTICS: (A) LENGTH: 83 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (XI) SEQUENCE CHARACTERISTICS: (A) LENGTH: 83 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (XI) SEQUENCE CHARACTERISTICS: (A) LENGTH: 83 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (XI) SEQUENCE DESCRIPTION: SEQ ID NO:60:		(A) LENGTH: 86 base pairs	
(XI) SEQUENCE DESCRIPTION: SEQ ID NO:56:  GGGACUAUUG AUGGCCUUCC GACCCGGUAC GUCCAGAUAC ACGAAGAUGG ACUCCGUAUC GCACACAGAG GUAAAGAGGA UCCGGG  (2) INFORMATION FOR SEQ ID NO:57:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 86 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear  (XI) SEQUENCE DESCRIPTION: SEQ ID NO:57:  GGGACUAUUG AUGGCGUUCC GACCACCUCC AUCCAGAAAC ACGAUAGUGG ACUCUGGAGC UCACACAGAG GUAAAGAGGA UCCGGG  (2) INFORMATION FOR SEQ ID NO:58:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 86 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear  (XI) SEQUENCE DESCRIPTION: SEQ ID NO:58:  GGGACUAUUG AUGGCCUUCC GACCGAGACA GUCGAGAAAC ACGUUUGUGG ACUCCGUCUC UCACACAGAG GUAAAGAGGA UCCGGG  (2) INFORMATION FOR SEQ ID NO:59:  (GGACUAUUG AUGGCCUUCC GACCGGAGAC GUCGAGAAAC ACGUUUGUGG ACUCCGUCUC UCACACAGAG GUAAAGAGGA UCCGGG  (2) INFORMATION FOR SEQ ID NO:59:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 86 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear  (XI) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 86 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear  (XI) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 83 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear  (XI) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 83 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear  (XI) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 83 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear  (XI) SEQUENCE DESCRIPTION: SEQ ID NO:60:			
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:56: GGGACUAUUG AUGGCCUUCC GACCCGGUAC GUCGAGAUAC ACGAAGAUGG ACUCCGUAUC GCACACAGAG GUAAAGAGGA UCCGGG  (2) INFORMATION FOR SEQ ID NO:57: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 86 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:57: GGGACUAUUG AUGGCCUUCC GACCAACUCC AUCGAGAAAC ACGAUAGUGG ACUCUGGAGC UCACACAGAG GUAAAGAGGA UCCGGG  (2) INFORMATION FOR SEQ ID NO:58: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 86 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:58: GGGACUAUUG AUGGCCUUCC GACCGAGAC GUCGAGAAAC ACGUUUGUGG ACUCCGUCUC UCACACAGAG GUAAAGAGGA UCCGGG  (2) INFORMATION FOR SEQ ID NO:59: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 86 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (Xi) SEQUENCE CHARACTERISTICS: (A) LENGTH: 86 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (Xi) SEQUENCE CHARACTERISTICS: (A) LENGTH: 86 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (Xi) SEQUENCE CHARACTERISTICS: (A) LENGTH: 83 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (XI) SEQUENCE CHARACTERISTICS: (A) LENGTH: 83 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (XI) SEQUENCE CHARACTERISTICS: (A) LENGTH: 83 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (XI) SEQUENCE DESCRIPTION: SEQ ID NO:60:			
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ACUCCGUAUC GCACACAGAG GUAAAGAGGA UCCGGG  (2) INFORMATION FOR SEQ ID NO:57:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 86 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:57: GGGACUAUUG AUGGCCUUCC GACCACUCC AUCGAGAAAC ACGAUAGUGG  ACUCUGGAGC UCACACAGAG GUAAAGAGGA UCCGGG  (2) INFORMATION FOR SEQ ID NO:58:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 86 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:58: GGGACUAUUG AUGGCCUUCC GACCGGAGAAC GUCGAGAAAC ACGUUUGUGG  ACUCCGUCU UCACACAGAG GUAAAGAGGA UCCGGG  (2) INFORMATION FOR SEQ ID NO:59:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 86 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:59: GGGACUAUUG AUGGCCUUCC GACCAGCUAC AUCGAGAAC AAGAUUUUGG  ACUCCUGUAG CGCACACAGAG GUAAAGAGGA UCCGGG  (2) INFORMATION FOR SEQ ID NO:59: GGGACUAUUG AUGGCCUUCC GACCAGCUAC AUCGAGAAAC AAGAUUUUGG  ACUCUGUAGC GCACACAGAG GUAAAGAGGA UCCGGG  (2) INFORMATION FOR SEQ ID NO:60:  (3) SEQUENCE CHARACTERISTICS:  (4) LENGTH: 83 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear  (Xi) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 83 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear  (Xi) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 83 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear  (Xi) SEQUENCE DESCRIPTION: SEQ ID NO:60:		SEQUENCE DESCRIPTION: SEQ ID NO:56:	
(2) INFORMATION FOR SEQ ID NO:57:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 86 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:57:  GGGACUAUUG AUGGCCUUCC GACCAACUCC AUCGAGAAAC ACGAUAGUGG  ACUCUUGGAGC UCACACAGG GUAAAGAGGA UCCGGG  (2) INFORMATION FOR SEQ ID NO:58:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 86 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:58:  GGGACUAUUG AUGGCCUUCC GACCGGAGAC GUCGAGAAAC ACGUUUGUGG  ACUCCGUCU UCACACAGAG GUAAAGAGGA UCCGGG  (2) INFORMATION FOR SEQ ID NO:59:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 86 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:59:  GGGACUAUUG AUGGCCUUCC GACCAGCUAC AUCGAGAAAC AAGAUUUUGG  ACUCCUGUGC CHARACTERISTICS:  (A) LENGTH: 86 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear  (xi) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 83 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear  (XI) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 83 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear  (XI) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 83 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear  (XI) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 83 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear  (XI) SEQUENCE DESCRIPTION: SEQ ID NO:60:	GGGACUAU	UG AUGGCCUUCC GACCCGGUAC GUCGAGAUAC ACGAAGAUGG	
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(B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:58:  GGGACUAUUG AUGGCCUUCC GACCGGAGAC GUCGAGAAAC ACGUUUGUGG ACUCCGUCUC UCACACAGAG GUAAAGAGGA UCCGGG  (2) INFORMATION FOR SEQ ID NO:59: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 86 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:59:  GGGACUAUUG AUGGCCUUCC GACCAGCUAC AUCGAGAAAC AAGAUUUUGG ACUCUGUAGC GCACACAGAG GUAAAGAGGA UCCGGG  (2) INFORMATION FOR SEQ ID NO:60: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 83 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEOUENCE DESCRIPTION: SEQ ID NO:60:	\ <del>-</del> /		
(C) STRANDEDNESS: single (D) TOPOLOGY: linear  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:58:  GGGACUAUUG AUGGCCUUCC GACCGGAGAC GUCGAGAAAC ACGUUUGUGG 50 ACUCCGUCUC UCACACAGAG GUAAAGAGGA UCCGGG 86  (2) INFORMATION FOR SEQ ID NO:59: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 86 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:59: GGGACUAUUG AUGGCCUUCC GACCAGCUAC AUCGAGAAAC AAGAUUUUGG 50 ACUCUGUAGC GCACACAGAG GUAAAGAGGA UCCGGG 86  (2) INFORMATION FOR SEQ ID NO:60: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 83 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:60:			
(XI) SEQUENCE DESCRIPTION: SEQ ID NO:58:  GGGACUAUUG AUGGCCUUCC GACCGGAGAC GUCGAGAAAC ACGUUUGUGG ACUCCGUCUC UCACACAGAG GUAAAGAGGA UCCGGG  (2) INFORMATION FOR SEQ ID NO:59:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 86 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:59:  GGGACUAUUG AUGGCCUUCC GACCAGCUAC AUCGAGAAAC AAGAUUUUGG ACUCUGUAGC GCACACAGAG GUAAAGAGGA UCCGGG  (2) INFORMATION FOR SEQ ID NO:60:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 83 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear  (Xi) SEQUENCE DESCRIPTION: SEQ ID NO:60:			
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:58:  GGGACUAUUG AUGGCCUUCC GACCGGAGAC GUCGAGAAAC ACGUUUGUGG ACUCCGUCUC UCACACAGAG GUAAAGAGGA UCCGGG  (2) INFORMATION FOR SEQ ID NO:59:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 86 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:59:  GGGACUAUUG AUGGCCUUCC GACCAGCUAC AUCGAGAAAC AAGAUUUUGG ACUCUGUAGC GCACACAGAG GUAAAGAGGA UCCGGG  (2) INFORMATION FOR SEQ ID NO:60:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 83 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear  (Xi) SEOUENCE DESCRIPTION: SEQ ID NO:60:		(D) TOPOLOGY: linear	
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ACUCCGUCUC UCACACAGAG GUAAAGAGGA UCCGGG  (2) INFORMATION FOR SEQ ID NO:59:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 86 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:59:  GGGACUAUUG AUGGCCUUCC GACCAGCUAC AUCGAGAAAC AAGAUUUUGG  ACUCUGUAGC GCACACAGAG GUAAAGAGGA UCCGGG  (2) INFORMATION FOR SEQ ID NO:60:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 83 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:60:		TIG ATIGGCCTRICC GACCGGAGAC GUCGAGAAAC ACGUUUGUGG	50
(2) INFORMATION FOR SEQ ID NO:59:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 86 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:59:  GGGACUAUUG AUGGCCUUCC GACCAGCUAC AUCGAGAAAC AAGAUUUUGG  ACUCUGUAGC GCACACAGAG GUAAAGAGGA UCCGGG  (2) INFORMATION FOR SEQ ID NO:60:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 83 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:60:			86
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 86 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:59:  GGGACUAUUG AUGGCCUUCC GACCAGCUAC AUCGAGAAAC AAGAUUUUGG  ACUCUGUAGC GCACACAGAG GUAAAGAGGA UCCGGG  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 83 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:60:	ACOCCGO		
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 86 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:59:  GGGACUAUUG AUGGCCUUCC GACCAGCUAC AUCGAGAAAC AAGAUUUUGG  ACUCUGUAGC GCACACAGAG GUAAAGAGGA UCCGGG  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 83 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:60:	(2)	INFORMATION FOR SEO ID NO:59:	
(A) LENGTH: 86 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:59:  GGGACUAUUG AUGGCCUUCC GACCAGCUAC AUCGAGAAAC AAGAUUUUGG  ACUCUGUAGC GCACACAGAG GUAAAGAGGA UCCGGG  (2) INFORMATION FOR SEQ ID NO:60:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 83 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:60:	• •		
(B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:59:  GGGACUAUUG AUGGCCUUCC GACCAGCUAC AUCGAGAAAC AAGAUUUUGG 50 ACUCUGUAGC GCACACAGAG GUAAAGAGGA UCCGGG 86  (2) INFORMATION FOR SEQ ID NO:60: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 83 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:60:	(1)		
(C) STRANDEDNESS: single (D) TOPOLOGY: linear  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:59:  GGGACUAUUG AUGGCCUUCC GACCAGCUAC AUCGAGAAAC AAGAUUUUGG ACUCUGUAGC GCACACAGAG GUAAAGAGGA UCCGGG  (2) INFORMATION FOR SEQ ID NO:60:  (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 83 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:60:			
(D) TOPOLOGY: linear  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:59:  GGGACUAUUG AUGGCCUUCC GACCAGCUAC AUCGAGAAAC AAGAUUUUGG  ACUCUGUAGC GCACACAGAG GUAAAGAGGA UCCGGG  (1) INFORMATION FOR SEQ ID NO:60:  (1) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 83 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:60:		(C) STRANDEDNESS: single	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:59:  GGGACUAUUG AUGGCCUUCC GACCAGCUAC AUCGAGAAAC AAGAUUUUGG 50 ACUCUGUAGC GCACACAGAG GUAAAGAGGA UCCGGG 86  (2) INFORMATION FOR SEQ ID NO:60:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 83 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:60:			
GGGACUAUUG AUGGCCUUCC GACCAGCUAC AUCGAGAAAC AAGAUUUUGG ACUCUGUAGC GCACACAGAG GUAAAGAGGA UCCGGG  (2) INFORMATION FOR SEQ ID NO:60:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 83 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:60:	(sci)		
ACUCUGUAGC GCACACAGAG GUAAAGAGGA UCCGGG  (2) INFORMATION FOR SEQ ID NO:60:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 83 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:60:	מממאמוא. (אד)	THE AUGGCOTHIC GACCAGOTIAC AUGGAGAAAC AAGAUUUUGG	50
(2) INFORMATION FOR SEQ ID NO:60:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 83 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:60:			86
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 83 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:60:	ACUCUGU	NOC GENERALING CONTRIGUES OF THE CONTRIGUES OF T	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 83 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:60:	(2)	INFORMATION FOR SEC ID NO.60.	
(A) LENGTH: 83 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:60:	•		
<pre>(B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:60:</pre>	(1)		
(C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:60:			
(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:60:			
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:60:		• • •	
(AL) SEQUENCE DESCRIPTION. SEX IN NO. 10.	/+=+ \	(B) 10104001.	
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(2)

(2)	INFORMATION FOR SEQ ID NO:66:	
(i)		
	(A) LENGTH: 86 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: single	
	(D) TOPOLOGY: linear	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:66:	
	JUG AUGGCCUUCC GACCUCCUGC AUUGAGAAAC AGUGAUCUGG	50
ACUCUGC!	AAC UCACACAGAG GUAAAGAGGA UCCGGG	86
(2)	INFORMATION FOR SEQ ID NO:67:	
(i)	SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 85 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: single	
	(D) TOPOLOGY: linear	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:67:	
GGGACUA	UUG AUGGCCUUCC GACCUGUGGA UUGAGCAACA CGUGAGUGGA	50
CUCUCCA	CAU CACACAGAGG UAAAGAGGAU CCGGG	85
(2)	INFORMATION FOR SEQ ID NO:68:	
(i)		
	(A) LENGTH: 86 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: single	
	(D) TOPOLOGY: linear	
(xi)		
	UUG AUGGCCUUCC GACCCCGUGC GUUGAGACAC ACACCGAUGG	50
	AUG UCACACAGAG GUAAAGAGGA UCCGGG	86
(2)	INFORMATION FOR SEQ ID NO:69:	
(i)	SEQUENCE CHARACTERISTICS:	
(1)	(A) LENGTH: 86 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: single	
	(D) TOPOLOGY: linear	
123	SEQUENCE DESCRIPTION: SEQ ID NO:69:	
(X1)	LUUG AUGGCCUUCC GACCAGCUGC AUCGAGAUAC ACGAUUGUGG	50
	AGC CCACACAGAG GUAAAGAGGA UCCGGG	86
(2)	INFORMATION FOR SEQ ID NO:70:	
(i)	SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 87 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: single	
	(D) TOPOLOGY: linear	
(xi)	(2)	
	AUUG AUGGCCUUCC GACCAGAUUC GUUGAGAAAC ACAUGGGUGG	50
	CCGC UACACACAGA GGUAAAGAGG AUCCGGG	87
ACUCUC	1000 Alminimies advissing seasons	

INFORMATION FOR SEQ ID NO:71:

	<ul> <li>(A) LENGTH: 86 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	50 86
(2) (i)	_	
(1)	(A) LENGTH: 86 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: single	
	(D) TOPOLOGY: linear	
(xi)		
	JUG AUGGCCUUCC GACCGACUGC AUCGAGAAAC ACUGAUGUGG ACG GCACACAGAG GUAAAGAGGA UCCGGG	50 86
CCUCCGC	ACG GCACACAGAG GUAAAGAGAA DCCGGG	86
(2)	INFORMATION FOR SEQ ID NO:73:	
(i)	SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 86 base pairs	
	(B) TYPE: nucleic acid	
	<pre>(C) STRANDEDNESS: single (D) TOPOLOGY: linear</pre>	
(xi)	SEQUENCE DESCRIPTION: SEO ID NO:73:	
(xi) GGGACUA	SEQUENCE DESCRIPTION: SEQ ID NO:73: JUG AUGGCCUUCC GACCAGCUAC GUUGAGAAAC AGUAUAAUGG	50
GGGACUA	-	50 86
GGGACUAT ACUCCGUI	JUG AUGGCCUUCC GACCAGCUAC GUUGAGAAAC AGUAUAAUGG AGC UCACACAGAG GUAAAGAGGA UCCGGG	
GGGACUAY ACUCCGUZ	JUG AUGGCCUUCC GACCAGCUAC GUUGAGAAAC AGUAUAAUGG AGC UCACACAGAG GUAAAGAGGA UCCGGG INFORMATION FOR SEQ ID NO:74:	
GGGACUAT ACUCCGUI	JUG AUGGCCUUCC GACCAGCUAC GUUGAGAAAC AGUAUAAUGG AGC UCACACAGAG GUAAAGAGGA UCCGGG  INFORMATION FOR SEQ ID NO:74: SEQUENCE CHARACTERISTICS:	
GGGACUAY ACUCCGUZ	JUG AUGGCCUUCC GACCAGCUAC GUUGAGAAAC AGUAUAAUGG AGC UCACACAGAG GUAAAGAGGA UCCGGG INFORMATION FOR SEQ ID NO:74:	
GGGACUAY ACUCCGUZ	IUG AUGGCCUUCC GACCAGCUAC GUUGAGAAAC AGUAUAAUGG AGC UCACACAGAG GUAAAGAGGA UCCGGG  INFORMATION FOR SEQ ID NO:74: SEQUENCE CHARACTERISTICS: (A) LENGTH: 86 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single	
GGGACUAY ACUCCGUI (2) (i)	INFORMATION FOR SEQ ID NO:74: SEQUENCE CHARACTERISTICS:  (A) LENGTH: 86 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
GGGACUAN ACUCCGUI (2) (i)	UUG AUGGCCUUCC GACCAGCUAC GUUGAGAAAC AGUAUAAUGG AGC UCACACAGAG GUAAAGAGGA UCCGGG  INFORMATION FOR SEQ ID NO:74: SEQUENCE CHARACTERISTICS: (A) LENGTH: 86 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear SEQUENCE DESCRIPTION: SEQ ID NO:74:	86
GGGACUAT ACUCCGUI  (2) (i)  (xi)  GGGACUAT	UUG AUGGCCUUCC GACCAGCUAC GUUGAGAAAC AGUAUAAUGG AGC UCACACAGAG GUAAAGAGGA UCCGGG  INFORMATION FOR SEQ ID NO:74: SEQUENCE CHARACTERISTICS: (A) LENGTH: 86 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear SEQUENCE DESCRIPTION: SEQ ID NO:74: UUG AUGGCCUUCC GACCGAGUGC GUCGAGAAAC ACAUUUGUGG	86 50
GGGACUAT ACUCCGUI  (2) (i)  (xi)  GGGACUAT	UUG AUGGCCUUCC GACCAGCUAC GUUGAGAAAC AGUAUAAUGG AGC UCACACAGAG GUAAAGAGGA UCCGGG  INFORMATION FOR SEQ ID NO:74: SEQUENCE CHARACTERISTICS: (A) LENGTH: 86 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear SEQUENCE DESCRIPTION: SEQ ID NO:74:	86
GGGACUAT ACUCCGUI  (2) (i)  (xi)  GGGACUAT	UUG AUGGCCUUCC GACCAGCUAC GUUGAGAAAC AGUAUAAUGG AGC UCACACAGAG GUAAAGAGGA UCCGGG  INFORMATION FOR SEQ ID NO:74: SEQUENCE CHARACTERISTICS: (A) LENGTH: 86 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear SEQUENCE DESCRIPTION: SEQ ID NO:74: UUG AUGGCCUUCC GACCGAGUGC GUCGAGAAAC ACAUUUGUGG	86 50
GGGACUAI ACUCCGUI (2) (i) (xi) GGGACUAI ACUCCGCI	INFORMATION FOR SEQ ID NO:74:  (A) LENGTH: 86 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear  SEQUENCE DESCRIPTION: SEQ ID NO:74:  UUG AUGGCCUUCC GACCGAGUGC GUCGAGAAAC ACAUUUGUGG  ACA CCACACAGAG GUAAAGAGGA UCCGGG  INFORMATION FOR SEQ ID NO:75:  SEQUENCE CHARACTERISTICS:	86 50
GGGACUAI ACUCCGUI (2) (i) (xi) GGGACUAI ACUCCGCI	INFORMATION FOR SEQ ID NO:74:  SEQUENCE CHARACTERISTICS:  (A) LENGTH: 86 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear  SEQUENCE DESCRIPTION: SEQ ID NO:74:  UUG AUGGCCUUCC GACCGAGUGC GUCGAGAAAC ACAUUUGUGG  ACA CCACACAGAG GUAAAGAGGA UCCGGG  INFORMATION FOR SEQ ID NO:75:  SEQUENCE CHARACTERISTICS:  (A) LENGTH: 86 base pairs	86 50
GGGACUAI ACUCCGUI (2) (i) (xi) GGGACUAI ACUCCGCI	INFORMATION FOR SEQ ID NO:74:  SEQUENCE CHARACTERISTICS:  (A) LENGTH: 86 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear  SEQUENCE DESCRIPTION: SEQ ID NO:74:  UUG AUGGCCUUCC GACCGAGUGC GUCGAGAAAC ACAUUUGUGG  ACA CCACACAGAG GUAAAGAGGA UCCGGG  INFORMATION FOR SEQ ID NO:75:  SEQUENCE CHARACTERISTICS:  (A) LENGTH: 86 base pairs  (B) TYPE: nucleic acid	86 50
GGGACUAI ACUCCGUI (2) (i) (xi) GGGACUAI ACUCCGCI	INFORMATION FOR SEQ ID NO:74: SEQUENCE CHARACTERISTICS: (A) LENGTH: 86 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear SEQUENCE DESCRIPTION: SEQ ID NO:74: UUG AUGGCCUUCC GACCGAGUGC GUCGAGAAAC ACAUUUGUGG ACA CCACACAGAG GUAAAGAGGA UCCGGG  INFORMATION FOR SEQ ID NO:75: SEQUENCE CHARACTERISTICS: (A) LENGTH: 86 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single	86 50
GGGACUAI ACUCCGUI (2) (i) (xi) GGGACUAI ACUCCGCI	INFORMATION FOR SEQ ID NO:74: SEQUENCE CHARACTERISTICS: (A) LENGTH: 86 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear SEQUENCE DESCRIPTION: SEQ ID NO:74: UUG AUGGCCUUCC GACCGAGUGC GUCGAGAAAC ACAUUUGUGG ACA CCACACAGAG GUAAAGAGGA UCCGGG  INFORMATION FOR SEQ ID NO:75: SEQUENCE CHARACTERISTICS: (A) LENGTH: 86 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	86 50
GGGACUAY ACUCCGUI  (2) (xi)  GGGACUAY ACUCCGCI  (2) (i)	INFORMATION FOR SEQ ID NO:74: SEQUENCE CHARACTERISTICS: (A) LENGTH: 86 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear SEQUENCE DESCRIPTION: SEQ ID NO:74: UUG AUGGCCUUCC GACCGAGUGC GUCGAGAAAC ACAUUUGUGG ACA CCACACAGAG GUAAAGAGGA UCCGGG  INFORMATION FOR SEQ ID NO:75: SEQUENCE CHARACTERISTICS: (A) LENGTH: 86 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	86 50
GGGACUAY ACUCCGUI  (2) (i)  (xi) GGGACUAY ACUCCGCI  (2) (i)  (xi) GGGACUAY	INFORMATION FOR SEQ ID NO:74: SEQUENCE CHARACTERISTICS: (A) LENGTH: 86 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear SEQUENCE DESCRIPTION: SEQ ID NO:74: UUG AUGGCCUUCC GACCGAGUGC GUCGAGAAAC ACAUUUGUGG ACA CCACACAGAG GUAAAGAGGA UCCGGG  INFORMATION FOR SEQ ID NO:75: SEQUENCE CHARACTERISTICS: (A) LENGTH: 86 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	50 86
(2) (xi) (GGGACUAY ACUCCGC (2) (i) (xi) GGGACUAY ACUCCGCC (2) (xi) GGGACUAY ACUCCGCC	INFORMATION FOR SEQ ID NO:74: SEQUENCE CHARACTERISTICS:  (A) LENGTH: 86 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear SEQUENCE DESCRIPTION: SEQ ID NO:74: UUG AUGGCCUUCC GACCGAGUGC GUCGAGAAAC ACAUUUGUGG ACA CCACACAGAG GUAAAGAGGA UCCGGG  INFORMATION FOR SEQ ID NO:75: SEQUENCE CHARACTERISTICS: (A) LENGTH: 86 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear SEQUENCE CHARACTERISTICS: (A) LENGTH: 86 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear SEQUENCE DESCRIPTION: SEQ ID NO:75: UUG AUGGCCUUCC GACCUCGUAC GUUGAGAAAC ACGCUAGUGG AUG UCACACAGAG GUAAAGAGGA UCCGGG	50 86
GGGACUAY ACUCCGUI  (2) (i)  (xi)  GGGACUAY ACUCCGCI  (2) (i)  (xi)  GGGACUAY ACUCCGUI  (2)	INFORMATION FOR SEQ ID NO:74: SEQUENCE CHARACTERISTICS:  (A) LENGTH: 86 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear SEQUENCE DESCRIPTION: SEQ ID NO:74: UUG AUGGCCUUCC GACCGAGUGC GUCGAGAAAC ACAUUUGUGG ACA CCACACAGAG GUAAAGAGGA UCCGGG  INFORMATION FOR SEQ ID NO:75: SEQUENCE CHARACTERISTICS: (A) LENGTH: 86 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear SEQUENCE CHARACTERISTICS: (A) LENGTH: 86 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear SEQUENCE DESCRIPTION: SEQ ID NO:75: UUG AUGGCCUUCC GACCUCGUAC GUUGAGAAAC ACGCUAGUGG AUG UCACACAGAG GUAAAGAGGA UCCGGG	50 86

	(A) LENGTH: 86 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	SEQUENCE DESCRIPTION: SEQ ID NO:76: JUG AUGGCCUUCC GACCAGAUAC GUUGAGAGAC ACGCACGUGG AUC UCACACAGAG GUAAAGAGGA UCCGGG	50 86
(2)	INFORMATION FOR SEQ ID NO:77:	
(i)		
	(A) LENGTH: 86 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: single	
	(D) TOPOLOGY: linear	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:77:	
GGGACUA	UUG AUGGCCUUCC GACCAGGAUC ACAGAGAAAC ACCGUGGGUG	50
GCUCCCU	CUA UCACACAGAG GUAAAGAGGA UCCGGG	86
(2)	INFORMATION FOR SEQ ID NO:78:	
(i)		
(1)	(A) LENGTH: 87 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: single	
	(D) TOPOLOGY: linear	
(xi)		
GGGACUA	UUG AUGGCCUUCC GACCGUGCGC AUCGAGAAAC ACGUUGAUGG	50
	AUG CACACAGA GGUAAAGAGG AUCCGGG	87
(2)	INFORMATION FOR SEQ ID NO:79:	
(i)		
	(A) LENGTH: 86 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: single	
	(D) TOPOLOGY: linear	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:79:	50
GGGACUA	AUUG AUGGCCUUCC GACCGAGAGG AUCGAGAAAC ACGUAUGUGG	86
ACUCUCO	CAUC UCACACAGAG GUAAAGAGGA UCCGGG	00
(0)	INFORMATION FOR SEQ ID NO:80:	
(2)		
(i)	(A) LENGTH: 86 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: single	
	(D) TOPOLOGY: linear	
(xi)	TO TO TO	
(AT)	AUUG AUGGCCUUCC GACCGGAUGG AUUGAGACAC ACGUAUGUGG	50
ACUCUC	CAUC ACACACAGAG GUAAAGAGGA UCCGGG	86
(2)	INFORMATION FOR SEQ ID NO:81:	
(2) (i)		
(-/	(A) LENGTH: 86 base pairs	
	• • •	

	(B)	TYPE: nucleic acid				
	(C)	STRANDEDNESS: single				
	(D)	TOPOLOGY: linear				
(xi)	SEQUE	NCE DESCRIPTION: SEQ ID	NO:81:			
GGGACUA	UUG AU	GGCCUUCC GACCUCGGGC AUUG	AGAUAC ACGUAGAUGG	50		
ACUCUGU	CUC AC	ACACAGAG GUAAAGAGGA UCCG	<b>3</b> G	86		
(2)		MATION FOR SEQ ID NO:82:				
(i)						
		LENGTH: 86 base pairs				
	(B)	TYPE: nucleic acid				
		STRANDEDNESS: single				
		TOPOLOGY: linear				
(xi)		INCE DESCRIPTION: SEQ ID				
		GGCCUUCC GACCUGGACC GUAG		50		
GCUCCCT	CUG UC	ACACAGAG GUAAAGAGGA UCCG	GG	86		
(2)	TNEOF	MATION FOR SEQ ID NO:83:				
(i)	-					
(-/		LENGTH: 29 base pairs				
		TYPE: nucleic acid				
		STRANDEDNESS: single				
	(D)	<del>-</del>				
(ii)	•	JLAR TYPE: RNA				
•	FEATU					
(	(D)		N's at positions N's at positions	1-5 are paired with 25-29		
(ix)	FEATU	RE:				
•	(D)	OTHER INFORMATION:	N at position 16 position 17	is paired with N at		
(xi)	SEQU	ENCE DESCRIPTION: SEQ ID	NO:83:			
NNNNNU	JGAG A	JACANNUGG ACUCNNNNN		29		